

Leadership St. Vrain - May 12, 2023

Dr. Haddad Update:

- Retiree dinner last night. Grateful for these excellent teachers
- 71 students graduated with Assoc. degree before getting their HS diploma. This allows students to move right into jobs if needed, offering another pathway

<https://www.longmontleader.com/schools/svvsd-students-graduate-college-before-high-school-6988648>

- Proud of efforts put towards equity for all students in St. Vrain Schools
- Lots to celebrate with graduation, sports teams, music programs all showing great success
- Lots of great pools of candidates for new teacher positions
- 2024 Bond coming up - will add a lot of value to our district

Career elevation/Technology Center



Career Elevation and Technology Center Website: <https://cetc.svvsd.org/>

## OVERVIEW

[cetc.svvsd.org](https://cetc.svvsd.org/)

- Celebrating over **50 years** of providing robust programming as one of the State of Colorado's premier Career and Technical Education Centers.
- Access to **eight** different career pathway opportunities.
- **State-of-the-art** educational programs aligned with St. Vrain's rigorous graduation requirements, as well as postsecondary and workforce readiness competencies.
- Over **1300** students from 11 high schools accessing course work on our campus.
- **Next year 1700** students over **6200** course request

## Who We Are

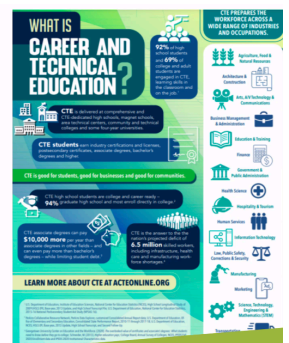
- **Highly-skilled** instructors ensure that students are future ready by:
  - providing high-quality instruction,
  - valuable technical skills,
  - seamless transition to advancing education or employment through concurrent enrollment & industry certifications
- Work-based learning (WBL) experiences such as:
  - project-based learning,
  - job shadowing,
  - clinical experiences,
  - project teams,
  - internships & apprenticeships with local industry partners



CAREER ELEVATION & TECHNOLOGY CENTER ST. VRAIN VALLEY SCHOOLS academic excellence by design

## Additionally,

- **Seven** programs offer multiple industry certifications
  - ASE, AWS, IPC, MSSC, ServSafe, SolidWorks, Autodesk, Adobe, CNA, EMT, NC3, etc.
- **Six** programs offer concurrent college credit
  - MSU, FRCC, Aims CC
- **Multiple** classes in each pathway
- **All courses** count as Practical Arts credit
- Internships, Apprenticeships, and Capstone opportunities available



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# What We Offer

## Eight Program Areas

- Agriscience
  - Plant/Animal
- Advanced Manufacturing
  - Electronics/Machining/Plastics/Automation/Optics
- Automotive
  - Diesel/Gasoline/Hybrids
- Interactive Media
  - Video and Graphic Design
- Health Sciences
  - EMT/CNA/Sports Medicine/Medical Assisting
- ProStart/Culinary Arts
- Welding and Fabrication
- Pre-Law (New for 2022-23)

## Advanced Manufacturing Academy

- Certifications offered:
  - OSHA, Lean Six Sigma
  - Autodesk and Solidworks Design Software
  - MSSC CPT (Certified Production Tech) and ASQ Blueprint Reading
  - Electronics Certifications (Through Blackfox)
    - ESD, Component Recognition, Terminal & Post Soldering
    - Through Hole and Surface Mount Soldering
    - IPC- A-610, JSTD-001, 7711/7721
- Post-Secondary Options
  - FRCC, AIMS, CSU, CU, MSU, Colorado School of Mines
- Possible pathways
  - Machine Operator/Machinist
  - Production Designer
  - Manufacturing, Electronics, or Optics/Photonics Technician
  - Manufacturing Engineer
  - Engineering - civil, electronic, industrial, aerospace



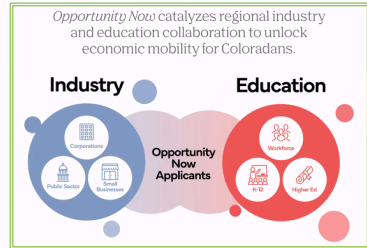
Learn more about Advanced Manufacturing: <https://cetc.svvsd.org/pathways/advanced-manufacturing/>



## Opportunity Now Colorado Grant Finalist

- Part of St. Vrain Valley School District's Opportunity Now Grant.
- Named as the only **public school district** lead applicant for Scale grant, which offers \$5M+ for innovative paths to high wage, high growth jobs.

<https://opportunitynow.co/>



## AgriScience

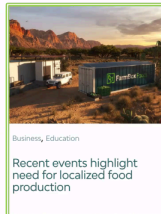
- Certifications offered
  - OSHA
  - Elanco Fundamentals of Animal Science Certification
  - Elanco Veterinary Medical Applications Certification
- Post-Secondary Options
  - FRCC, AIMS, Colorado Mesa University, CSU Pueblo
- Possible pathways
  - Veterinarian
  - Agricultural Inspector
  - Horticulture (Greenhouse)

Longmont Times-Call @TimesCall  
 SVVSD receives grant to support student led agriculture [trib.al/iqD6WUe](http://trib.al/iqD6WUe)




## Farm to School & Project Sky Garden

- Large Fund Grant Recipient (\$100,000) from Boulder County for Project Sky Garden (Farm Box)
- CDE Farm to School grant (\$11,700)
- "Our school is committed to innovation and impacting our local and global communities. Our students and teachers are difference-makers who are excited to explore sustainable practices that will make a difference in the environment."

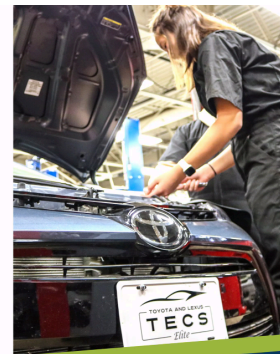


Business, Education  
 Recent events highlight need for localized food production



## Automotive Technologies

- Certifications offered:
  - Automotive Maintenance & Repair
  - Brakes, Engine Performance, Suspension & Steering
- Post-Secondary Options
  - FRCC, AIMS, Arapahoe CC, CSU Pueblo
- Possible Pathways
  - Automotive Technician
  - Master Mechanic
  - Automotive Engineer
  - Diesel Mechanic





- Selected as 3rd high school site in the Nation
- Program Objective
  - Elite instruction that emphasizes progressive certification levels achieved through challenging technical training
- State of the Art Vehicles & Equipment:
  - Two Toyota Vehicles
  - Hybrid
  - Toyota Drivetrains & Diagnostic Equipment
  - Toyota Specific Factory Technical Training
  - Toyota Specific Dealer Operational Processes



## A Woman's Work Partnership

- Student Led Project Team
- Community Partnership: Driving for Success
- "The students have fixed at least a dozen cars over the past year, and restored more than 10 purchased vehicles," said Libby Fitzgibbons, program director for A Woman's Work.



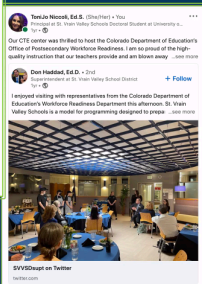
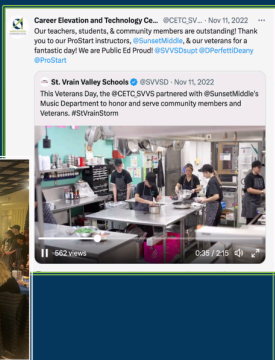
## ProStart Culinary Arts

- Certifications offered:
  - National ServSafe, National ProStart
- Post-Secondary Options
  - MSU, Colorado Mesa University, Escoffier
- Possible Pathways
  - Chef
  - Restaurant Manager
  - Food Critic
  - Pastry Chef/baker



## Health Sciences Academy

- Certifications offered:
  - Emergency Medical Technician (EMT), Personal Trainer, Nursing Assistant (CNA), First Responder
- Post-Secondary Options
  - FRCC, AIMS, UNC, CSU, CU, MSU
- Potential Pathways
  - EMT, Nursing, Medical Assisting, Medical Office Administration, Personal Trainer, Occupational Therapy, Sports Medicine



## Interactive Media

- Certifications offered
  - FRCC - Fundamentals of Multimedia Technology
  - Adobe Certified Associate in...
    - Photoshop, Illustrator, InDesign, After Effects, and Premiere Pro
- Post-Secondary Options
  - FRCC, AIMS, DeVry, CSU, UNC, University of Colorado
- Possible Pathways
  - Graphic Design
  - Video Production
  - Video Editing
  - Photography



## Pre-Law

New This Year!

- Comprehensive introduction to American civil & criminal law its legal systems and institutions, and appropriate legal theory & practice.
- Students will develop knowledge & skills for the modern legal workplace.
- Hope to develop into a 3 year pathway with additional coursework in constitutional law, legal research and writing, and more.
- Students will explore potential careers through work-based learning opportunities.



# Welding and Fabrication

- Certifications offered:
  - American Welding Society (AWS)
    - SENSE (Safety, Blueprint Reading, etc.)
    - AWS D1.1 Structural 3G
- Post-Secondary Options
  - FRCC, AIMS, CCD, Red Rocks CC
- Potential Pathways
  - Fabrication
  - Underwater Welding
  - Ironworker/Boilermaker
  - Pipefitter
  - Shipwright
  - Oil and gas



## State Championship Welding Program



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Nolan to Everyone 9:59 AM

Are these courses offered at all St. Vrain schools or will a high school be assigned a course to be offered? Example: if a student is interested in the automotive program, will he need to enroll in a specific school or can he attend his neighborhood school?

@Nolan - both the CETC and IC are district programs that serve all HS students across the district. The classes we are sharing are hosted at each site; students sign up for a class/es, then take a bus during the day from their home HS to IC/CETC.

## Connect with CETC

1 <https://cetc.svvsd.org/>

3 ToniJo Niccoli:  
[niccoli\\_tonijo@svvsd.org](mailto:niccoli_tonijo@svvsd.org)

2 [https://twitter.com/CETC\\_SVVS](https://twitter.com/CETC_SVVS)

4 Charles Webber:  
[webber\\_charles@svvsd.org](mailto:webber_charles@svvsd.org)

Connect with the CETC on Twitter:  
[https://twitter.com/cetc\\_svvs](https://twitter.com/cetc_svvs)



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INNOVATION CENTER:  
(K-12)

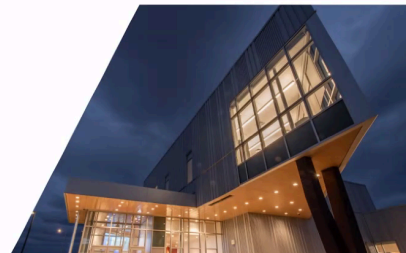


INNOVATION CENTER  
of ST. VRAIN VALLEY SCHOOLS

State of Innovation  
Leadership St. Vrain



INNOVATION CENTER  
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Innovation Center website: <https://innovation.svvsd.org/>

Learn about STEM Education at the IC: <https://innovation.svvsd.org/focus-areas/stem-education/>

## Vision

*"The Innovation Center is the next step in public education, providing opportunities to experiment with extraordinary ideas and technologies to solve real-world problems. We are a catalyst, incubator, and bridge between education, industry, and our community."*



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Learn about STEM Education at the IC: <https://innovation.svvsd.org/focus-areas/stem-education/>

Sign up for a tour: <https://innovation.svvsd.org/facility-use-tours/>

## What we do:

- Offer Career-Connected, Hands-On Courses
- Develop & Manage Project Teams
- Cultivate Partnerships
- Diffuse Innovations



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## Hands-On, Career-Connected Courses

- **60** Unique Courses (71% increase in past two years)
- **9** Different Pathways
- Extensions of focus programs
- Unique pathways
- Professional certifications
- Concurrent enrollment
- Rapid growth



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Learn more about Aeronautics: <https://innovation.svvsd.org/focus-areas/aeronautics/>

Learn more about Bioscience: <https://innovation.svvsd.org/focus-areas/bioscience/>

Read about Cybersecurity: <https://innovation.svvsd.org/focus-areas/cybersecurity/>

Learn about Entrepreneurship at the IC: <https://innovation.svvsd.org/focus-areas/entrepreneurship/>

Learn about Robotics at the IC: <https://innovation.svvsd.org/focus-areas/robotics/>

Learn about Virtual and Digital Design: <https://innovation.svvsd.org/focus-areas/virtual-and-digital-design/>

## Project Teams

- 37 project teams
- Appx. **250** actively involved students
- **207** paid student designers (22% increase)
- **52** client-based projects completed or in process (164% increase)



INNOVATION CENTER  
OF ST. VRAIN VALLEY SCHOOLS



Learn about Student Project Teams: <https://innovation.svvsd.org/programs/competitive-project-student-teams/>

## Building Partnerships

- **Advisory Boards**
  - Innovation Center Board - 14 members
  - Science Advisory Board - 20 members
  - Aerospace Advisory Board - 6 members
  - AI/Cyber Advisory Board - 10 members
- **Events & Bootcamps**
  - AMD
  - CU Boulder
  - Northrop-Grumman
  - Artificial Intelligence
  - More added every year!



Are you looking for partnerships to collaborate on real world projects with students? If so, how does a community partner express their interest in doing so?

Collapse All ^ 😊

Joe McBreen 10:35 AM

JM

Yes! Please contact me at [mcbreen\\_joseph@svvsd.org](mailto:mcbreen_joseph@svvsd.org) or 303-702-8201.

## Summer Programs!

- The Innovation Center is excited to offer summer opportunities to students just completing kindergarten all the way through high school.

<https://innovation.svvsd.org/programs/summer-programs/>



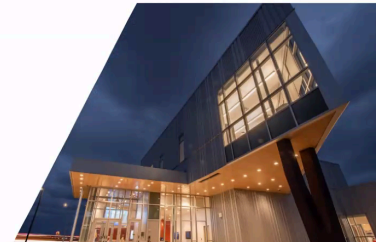
## Communications & Outreach

LONGMONT LEADER 🏆

Robots help special education and English learners with speech and social skills



Shela Bowers Gullis  
May 7, 2021 8:00 AM



## Communications & Outreach

LONGMONT LEADER 🏆

SVVSD students win global artificial intelligence competition



Shela Bowers Gullis  
May 11, 2022 12:00 PM



The winners of the 2022 World Artificial Intelligence Competition for Youth include Northwood Elementary, 11th grade, Wood High School, 8th grade, Denver, Denver Central High School, 8th grade, Denver, Denver Central High School, 8th grade, 10th grade, Open High School, 8th grade, 10th grade, Universal High School, 7 The Innovation Center of St. Vrain Valley Schools



<https://hsoptions.svvsd.org/#focus-programs>